

09/730,110

US-PAT-NO: 6344641

DOCUMENT-IDENTIFIER: US 6344641 B1

TITLE: System and method for on-chip calibration of
illumination sources for an integrated circuit
display

----- KWIC -----

For the reasons mentioned above, it is desirable to have the ability to calibrate and control the intensity of each illumination source. For example in a color display system having red, green and blue LEDs, it may be desirable to calibrate the output of each red, green and blue LED so that the outputs, when combined, form white light. In this example, unless each LED is calibrated to provide the appropriate intensity of light, combining the red, green and blue light may not provide the desired white light. The white balance should be maintained at all intensities of the white light. For example, unless all three LEDs are balanced, the light intensity changes due to variations in the temperature of each LED will likely result in white light that has an incorrect white balance. FIG. 2 is a simplified functional block diagram 20 illustrating the invention.

From
Richard E
Prenay 356